

Application No.: 09/993,569
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Amendments to the Claims:

Please replace all prior versions, and listings of claims in the application with the following listing of claims.

Listing of claims

Claims 1-2 (canceled)

Claim 3 (currently amended): A receiver, for use in a telecommunications system in which transmissions are sent from a plurality of base stations, the receiver comprising:

- receiver circuitry, for detecting transmissions from base stations;
- a filter, for detecting a correlation between detected transmissions from base stations and a known code, the filter including a plurality of filter segments; and
- control circuitry, for switching the filter between a first synchronisation mode, in which the filter is used divided into segments, when ~~a frequency deviation between a frequency of the transmissions and an expected frequency can be relatively large~~ the receiver is first detecting transmissions from a base station to achieve synchronisation therewith, and a second synchronisation mode, in which the filter is used undivided, when ~~the frequency deviation is limited~~ the receiver is synchronised with one base station and is detecting transmissions from an alternative base station.

Claim 4 (canceled)

Claim 5 (original): A receiver as claimed in claim 3, for use in a CDMA telecommunications system, wherein the filter detects a correlation between Long Code Masked symbols transmitted from base stations and the known code.

Claim 6 (original): A receiver as claimed in claim 3, comprising means for detecting a power of a correlation between detected transmissions from base stations and a known code, wherein, in the first synchronisation mode, the powers of the correlations of the filter segments are detected and added together to form an output value, and, in the second

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synchronisation mode, the correlations of the filter segments are added together and the power of the added correlations is detected, to form an output value.

Claim 7 (currently amended): A method of controlling a receiver, for use in a telecommunications system in which transmissions are sent from a plurality of base stations, the method comprising:

detecting transmissions from base stations;

using a filter, for detecting a correlation between detected transmissions from base stations and a known code, the filter including a plurality of filter segments; and

switching the filter between a first synchronisation mode, in which the filter is used divided into segments, when ~~a frequency deviation between a frequency of the transmissions and an expected frequency can be relatively large~~ the receiver is first detecting transmissions from a base station to achieve synchronisation therewith, and a second synchronisation mode, in which the filter is used undivided, when ~~the frequency deviation is limited~~ the receiver is synchronised with one base station and is detecting transmissions from an alternative base station.

Claim 8 (canceled)

Claim 9 (original): A method as claimed in claim 7, for use in a CDMA telecommunications system, wherein the filter detects a correlation between Long Code Masked symbols transmitted from base stations and the known code.

Claim 10 (original): A method as claimed in claim 7, comprising, in the first synchronisation mode, detecting the powers of the correlations of the filter segments and adding them together to form an output value, and, in the second synchronisation mode, adding together the correlations of the filter segments and detecting the power of the added correlations, to form an output value.

Claim 11 (original): A method as claimed in claim 10, further comprising detecting a synchronisation position of the transmissions based on the output value.